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7590

06/30/2004

Anthony P. Onello, Jr.
MILLS & ONELLO LLP
Suite 605
Eleven Beacon Street
Boston, MA 02108

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Vanessa Marakas (Depositor's name)

(Signature)

(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/705,480	11/10/2003	Jong-Hyun Lee	SAM-0402DIV	5138

TITLE OF INVENTION: METHOD OF FABRICATING SEMICONDUCTOR DEVICE INCLUDING FORMING CONTACT HOLE WITH ANISOTROPIC A ISOTROPIC ETCHING AND FORMING ~~DISCONTINUOUS~~ BARRIER LAYER
DISCONTINUOUS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	09/30/2004

EXAMINER	ART UNIT	CLASS-SUBCLASS
BREWSTER, WILLIAM M	2823	438-628000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 MILLS & ONELLO, LLP

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Samsung Electronics Co., Ltd.

Republic of Korea

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ individual ☒ corporation or other private group entity ☐ government

4a. The following fee(s) are enclosed:

4b. Payment of Fee(s):

☒ Issue Fee☒ A check in the amount of the fee(s) is enclosed.☒ Publication Fee☐ Payment by credit card. Form PTO-2038 is attached.☒ Advance Order - # of Copies 10☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment Deposit Account Number _____ (enclose an extra copy of this form).

Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

(Authorized Signature)

(Date)

Reg. No. 38,572August 26, 2004

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant, a registered attorney or agent, or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

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08/31/2004 HMEKONE1 00000096 10705480

01 FC:1501

02 FC:1504

03 FC:8001

1330.00 OP

300.00 OP

30.00 OP



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Jong-Hyun Lee
U.S. Serial No.: 10/705,480
Filing Date: November 10, 2003
Examiner: Brewster, William M.
Group Art Unit: 2823
Date of Notice of Allowance: June 30, 2004
Title: METHOD OF FABRICATING SEMICONDUCTOR
DEVICE INCLUDING FORMING CONTACT HOLE
WITH ANISOTROPIC AND ISOTROPIC ETCHING AND
FORMING DISCONTINUOUS BARRIER LAYER

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

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8-26-04

Date

Vanessa Marakas
Vanessa Marakas

Mail Stop Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL LETTER

Sir:

Enclosed herewith for filing in the above-identified patent application please find the following:

1. Fee(s) Transmittal PTOL-85;
2. Check in the amount of \$1,660.00 to cover Issue Fee, ten (10) advance-order copies of the printed patent and the Publication Fee; and
3. Return Postcard.

The Applicant notes a spelling error in the title on the PTOL-85 form and has corrected the error on the PTOL-85 form.

In connection with the foregoing matter, please charge any additional fees which may be due, or credit any overpayment, to Deposit Account Number 50-1798. A duplicate copy of this letter is provided for this purpose.

Respectfully submitted,

Date: August 26, 2004
Mills & Onello, LLP
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Boston, MA 02108
Telephone: (617) 994-4900
Facsimile: (617) 742-7774

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Attorney for Applicant